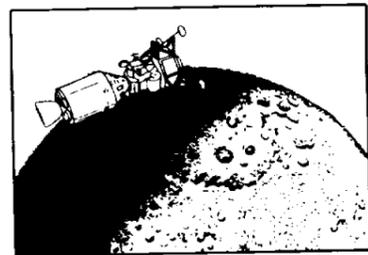


# ROUNDUP



HOUSTON, TEXAS

NASA LYNDON B. JOHNSON SPACE CENTER

Friday May 10, 1974

Vol. 13 No. 12

## Milestones On Schedule For ASTP

Apollo-Soyuz Test Project Technical Directors Dr. Glynn S. Lunney of the U. S. and Professor Konstantin Bushuyev of the Soviet Union have announced that all milestones for the 1975 joint mission are on schedule.

ASTP specialists of the USSR and NASA met at JSC April 8—May 3 to continue discussions and planning for the mission.

The technical directors, the prime flight crews and all five of the working groups took part in the discussions.

An agreement was reached on the dates for visiting the respective launch sites by specialists and members of the flight crews for familiarization with the flight spacecraft and to conduct the

tests of compatible equipment. The visit to the U. S. launch site will take place in February, 1975; the USSR launch site will be visited in May, 1975.

Results of the Apollo docking module and Soyuz life support systems tests conducted earlier in 1974 were reviewed and a joint document will be prepared.

Safety assessment reports on control systems and on spacecraft manufacturing rest and checkout were reviewed and approved. Schedules for each of the five joint experiments were also approved. The experiments include Ultraviolet Absorption, Biological Interaction, Microbial Exchange, Multipurpose Furnace, and Artificial Solar Eclipse.

An agreement was reached on the basic approach and content of the Joint Flight Readiness Review which will be held in May, 1975.

During the meeting here, the heads of the delegations visited the U. S. communication system breadboard test facility and the thermal vacuum test facility.

Joint crew training will be conducted in the USSR June 23-July 15, 1974 and in the U. S. September 9-30.

The next major meeting has been scheduled for September, 1974 in Moscow. At that time, discussion of long term requirements for compatible rendezvous and docking systems will be resumed.



SWEET SENDOFF!—Violet Redford of the JSC Cafeteria Executive Dining Room holds a Soviet dessert called Kissel that was prepared for the ASTP Soviet Delegation visiting JSC. U. S. Technical Director for ASTP Dr. Glynn S. Lunney (left) and USSR Technical Director Prof. Konstantin Bushuyev (right) show off a cake which reads "Safe Journey, until we meet again." The Soviet delegation left May 4.

## Young Assigned Acting Chief of Astronauts

John W. Young, veteran of four manned space flights, has been named acting chief of the astronaut office of the JSC Flight Operations Directorate. Former astronaut office chief Alan B. Shepard, Jr. will serve as senior advisor to Young.

Young was in the second group of astronauts selected by NASA in September 1962. He was pilot on the first manned Gemini mission in 1965 and command pilot of Gemini 10 July 1966. In a lunar-orbit test mission of

the Apollo lunar module in May 1969, Young served as command module pilot. Most recently, he was commander of the Apollo 16 lunar landing mission at the Descartes landing site. Young spent more than 20 hours on the lunar surface in three periods of exploration.

Young, a captain in the U. S. Navy, graduated from Georgia Institute of Technology in 1952 with a bachelor of science degree in aeronautical engineering. He  
*(Continued On Page 3)*



YOUNG

## John Yardly to Head Manned Space Flight

John Finley Yardley has been named Associate Administrator for Manned Space Flight succeeding Mr. Dale Myers who recently returned to private industry. In this position, Mr. Yardley will direct NASA's manned flight programs, including Space Shuttle and the US-USSR Apollo-Soyuz Test Project and the United States' responsibilities in Spacelab. Mr. Yardley has been Vice President and General Man-

ager, Eastern Division Astronautics for the McDonnell Douglas Corporation since 1972. He will report to his new NASA Headquarters post May 20.

Born in St. Louis in 1925, Mr. Yardley received a B.S. degree in Aeronautical Engineering from Iowa State College and an M.S. degree from Washington University. Mr. Yardley was Launch Operations Manager for the Mer-  
*(Continued On Page 4)*

## Schweickart Moves to Headquarters

Astronaut Russell L. Schweickart, lunar module pilot for Apollo 9 has joined the staff of NASA's Office of Applications in Washington, D. C.



SCHWEICKART

Currently assigned to the Office of the Assistant Administrator for Applications, he will become Director of User Affairs when Albert T. Christensen, who now holds that position, returns to

private industry in August.

The User Affairs Division in the Office of Applications maintains a close tie with users and potential users of the results of NASA's Applications programs—Earth Observations, Communications, Earth and Ocean Physics, and others—to insure that a flow of information back and forth is taking place and that these programs are highly responsive to user needs.

Schweickart—usually called "Rusty"—was one of 14 astronauts named by NASA in 1963. As lunar module pilot for Apollo 9, the third manned flight in the Apollo series in March 1969, he completed a successful 10-day mission in Earth orbit that first tested the lunar module in flight. He and James McDivitt, as spacecraft commander, separated the lunar module more than 100 miles from the command/service module, piloted by David R. Scott, then carried out a critical lunar-orbit rendezvous simulation and subsequent docking.

During a 46-minute EVA, the first in the Apollo program, Schweickart evaluated external transfer capability, took photographs, and retrieved thermal samples from the lunar module exterior.

Last year he served as backup commander for the first Skylab mission and, in addition, was responsible for monitoring design and development of the space station's solar telescope and planning Skylab extravehicular activities. He also had a major role in developing the hardware and procedures for erecting the emergency solar shade and deploying the jammed solar array wing. Before joining NASA, Schweickart served as a pilot in the U. S. Air Force and Air National Guard from 1956 to 1963. He was born in Neptune, New Jersey, and received a bachelor of science degree in aeronautical engineering and a master of science degree in aeronautics and astronautics from Massachusetts Institute of Technology.

## Dr. Winter Named New Life Sciences Director

Dr. David L. Winter, M. D., has been appointed NASA's Director for Life Sciences at NASA Headquarters. He was formerly the Deputy Director of the Ames Research Center Life Sciences Directorate, Mountain View, California.

Dr. Winter succeeds Dr. Charles A. Berry in the post which is responsible for management of life sciences programs in the NASA Headquarters Office of Manned Space Flight.

These activities include biomedical and bioscience research, medical aspects of manned

spaceflight operations, advanced life support and protective systems, man-machine integration and advanced bioinstrumentation. Dr. Winter also has the responsibility for directing the total NASA Life Sciences Program which encompasses life science applications, aeronautical life sciences, research into the question of extraterrestrial life, and occupational medicine.

Born in New York City in 1933, Dr. Winter received a B. A. Degree in 1955 from New York's Columbia College, and is a 1959  
*(Continued On Page 4)*

## Kimzey Presents Paper at Symposium

JSC employee John H. Kimzey, Principal Investigator of Skylab Experiment M-479 Zero Gravity Flammability—presented a paper on that subject at the third Space Processing Symposium held at the Marshall Space Flight Center April 30 and May 1.

The symposium, whose theme was "Skylab Results," was attended by internationally re-

cognized scientists representing universities, research institutes, industry and government.

The two-day gathering provided the first opportunity for a collective release of experiment results by Principal Investigators, and a unique chance for scientists to view representative hardware developed for space processing.

*(Continued On Page 4)*



SCHOLARSHIP WINNERS—1974 winners of the NASA Exchange-JSC scholarships were greeted by JSC Director Dr. Christopher C. Kraft during a recent visit to the Center. From left to right are Colleen Paulos, Dr. Kraft, Theresa Sawyer and Lee Wayne Balinas.

## JSC Awards Supplemental Contracts for MCC Support

JSC has awarded several supplemental contracts for continued work at the Mission Control Center (MCC).

Receiving the contracts are Univac Computer Systems Division of Sperry Rand Corporation, St. Paul, Minnesota; Philco Ford Corporation Western Development Laboratories, Palo Alto, California; and International Business Machines Corporation (IBM) Gaithersburg, Virginia.

Univac's cost-plus-fixed-fee contract supplement covers programming, engineering, maintenance and operations of the Communications, Command and Terminal System (CCATS) Processors in Mission Control through the Apollo-Soyuz Test Project (ASTP).

Univac's supplement is valued at about \$3,893,000, bringing the total estimated value of the contract to approximately \$24,276,000.

Philco-Ford's work includes Mission Preparation, Operation Engineering and Operational Support of the Control Center. The majority of the work will be

performed at Philco's Houston location with support from their offices at Palo Alto and Newport Beach, California, and Philadelphia, Pennsylvania. Their supplemental agreement, valued at about \$18,934,000 brings the estimated value of their contract to approximately \$255,189,000. Philco's support also will last through ASTP.

IBM will continue to Support the Real Time Computer Com-

plex (RTCC) of the Control Center. Performance includes design, development, implementation and maintenance of the RTCC of the MCC through September, 1975. The work will be performed at IBM's Houston facility and at JSC.

IBM's contract is a cost-plus-award-fee contract and was awarded noncompetitively. The total amount of the contract is \$10,518,103.

## Team Wins Bridge Tournament

General Electric Employees Alice Gowdy, Edith Reid and Deward and Betty Leighton captured first place honors in the JSC Charity Bridge Tournament held recently at the Gilruth Recreation Center.

Second place was nailed by JSC employees Jack Boykin, David O'Brien, Earl Tiedt and Joe Tiegham.

Beginning May 16, the Bridge Club will play regular duplicate bridge games each Thursday night in the Recreation Center.

The games will begin at 6:30 and will end at 9:30.

Membership is available to all civil service employees and members of their families. Associate membership in the club is available to all on-site contractor employees and their families.

There will be an initial fee of \$1.25 to collect funds to purchase duplicate bridge supplies, card tables and the like.

No fees will be collected after this payment.

## JSC Scholarship Recipients Chosen

Theresa Ann Sawyer, Lee (Wayne) Balinas, and Colleen Paulos have been selected to receive scholarships by the NASA Exchange—JSC, bringing the total number of students sponsored for scholarships to ten.

Theresa, a student at Clear Lake High School, is the daughter of Gloria Sawyer, Facilities Planning Branch, Engineering Division. She is a member of the National Honor Society and the Pan American Club and has served as an officer of the Future Secretaries Association and the Office Education Association in addition to doing work with the Women's Volunteer Auxiliary at the Space Center Memorial Hospital.

Wayne, son of Verby Balinas of the Systems Engineering Office, Apollo Spacecraft Program Office, has been active in band work for seven years, serving as band drum major at J. Frank Dobie High School and as a

member of a top symphonic band while in high school. He is an Eagle Scout, has received the Scout life saving award and the Philmont 50 miler award, and is an Explorer and member of Order of Arrow.

Colleen is a National Merit Scholarship Finalist, a member of the National Honor Society, and received awards for Academic Excellence in 1971, 1972, 1973 and 1974. The daughter of Theodore C. Paulos, Communications Services Branch, Management Services Division, Colleen has been active at Sam Rayburn High School in the German Club and the Campus Christian Organization. Her hobbies include swimming, tennis, horseback riding and dancing.

The scholarship fund which was established in 1967, provides \$300 per semester for a maximum value of \$3000, permitting sponsorship of students for five years if they are interested in seeking advanced degrees.

## VOE Student Wins National Office

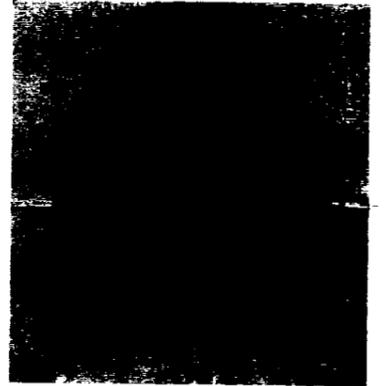
"Win With Kim" was the slogan that Kimberly White carried with her to the national convention of the Office Education Association held in Minneapolis, Minnesota, April 27-May 1.

Representing Clear Lake High School, Kim was elected OEA national president at the annual convention.

Kim is in the Vocational Office Education program at Clear Lake and is employed by the University of Houston Center for Management Studies and Analyses Office at JSC.

As OEA president, Kim will represent 50,000 students across the United States, and will have such responsibilities as helping to enhance the image of Office Education; working on the President's Youth Council in Washington D.C.; and traveling to

Chicago to plan the next OEA national convention.



KIMBERLY WHITE

Kim plans to attend the University of Texas next year. She is the daughter of Mr. and Mrs. Marvin White of El Lago. Mr. White is employed by Lockheed Electronics, JSC support contractor.

## Employees Act In "The Front Page"

A number of JSC and contractor employees are in the cast of "The Front Page," produced by the Clear Creek Country Theater (CCCT). The "Front Page" is the story of the press and the crooked politicians who ran Chicago in the Roaring Twenties.

Directed by recent Center retiree David Goldenbaum, the play will open at the CCCT in League City May 17 at 8:15 p. m., and will run each Friday and Saturday through June 8.

The cast includes Curtis Vetter

and J. B. Fox of Quality Engineering; Evie Whitsett, wife of Major C. E. Whitsett of the AF Space Transportation System Office at JSC, employees from Northrup, Lockheed, and other support contractors.

JSC and contractors are being offered reduced prices for the May 17 production. Regular \$3 tickets will be sold for \$2.50 and student admission will be \$1.25 rather than \$2.50. To receive the special rate, call 332-2931. Tickets may be paid for at the door.



PRESENTS BRIDGE TROPHIES—Astronaut Eugene Cernan presents trophies to General Electric Program Manager Bill Beittel and members of the team who won the JSC Charity Bridge Tournament held recently at the Gilruth Recreation Center. From left to right are, Deward and Betty Leighton, Beittel, Cernan, Edith Reid and Alice Gowdy.

## ROUNDUP

NASA LYNDON B. JOHNSON SPACE CENTER

HOUSTON TEXAS



The **Roundup** is an official publication of the National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, Texas, and is published every other Friday by the Public Affairs Office for JSC employees.

Editor: Janet Wrather Photographer: A. "Pat" Patnesky

# Roundup Swap-Shop

Swap Shop advertising is available to JSC and on-site contractor personnel. Articles or services must be offered as advertised, without regard to race, religion, sex or national origin. Ads should be 20 words or less, including home telephone number. Name and office code must accompany, but need not be included in ad copy. Typed or printed copy must be received (AP3 Attn; Roundup) by Thursday of the week before publication.

**MISCELLANEOUS**

Toddler seat for autos. "Tot-Guard" by Ford Motor Co., prfct cndn. \$20. 333-3789.  
 Join existing Consumer Reports Magazine subscription group for reduced rates to members. \$6 buying guide included. Parker. 4535 or 333-2253.  
 Golf club set and bag. Wilson Sarazen, irons. 3.5.7.9. putter. woods. 1.3. 488-4005.  
 Amateur radio. Drake TR-4. AC-4. pwr supply. Heathkit HW 12-A. AC and DC supplies. SB200 amplifier speaker. mikes. 583-1151.  
 Ruger st'd model. .22 cal auto pistol. pouch case. prfct. \$47.50. 488-3966.  
 Aquarium. 15 gal. glass and stainless st. cmplt w/ stand. approximately 15 fish. some supplies. \$25. Jeffcoat. 944-5749.  
 Join carpool leaving Woolco (Spencer) at 7:30 Bldgs 2 or 45. 8-4:30. Aggie. X4968 or Dianne. X6277.  
 IBM Selectric. wide carriage. elite type. ball supplied. \$395. Canniff. X5545.  
 Cmplt set matched golf clubs. first flight irons. Spaulding top flight woods. \$50. Haven. 3788 or 488-4288.  
 Olson stereo graphic frequency equalizer five control ranges. xint. \$25. 488-3966.  
 6" Craftsman metal turning lathe w/ accessories. li new. \$400 value for \$250. 334-1869 aft 6 p. m.  
 Four U. S. mag rims. 2 10x15 and two 8x15. fits Chevy truck or van. \$175. 482-7896.

**HOUSEHOLD ARTICLES**

Couch. chair. end/coffee tables. xint cndn. 80. 941-6784 aft 6.  
 Wool rug. \$5. 488-4005.  
 Matching sofa. chair. and e table lamps. red floral Spanish design. vry gd cndn. \$120. Ferguson. 482-3241.  
 68 RCA portable stereo motor does not work. good for parts. has 2 extendable speakers. 941-5464 or 5018. Carol.  
 Baby crib w/ mattress. vry gd cndn. \$35. matching chests. \$30 and \$20. Handley. 482-7041

**VEHICLES**

65 Mustang. 289. auto. air. ps. 80,000 actual miles. xint. \$750. x2391 or 946-1489.  
 69' 3/4 ton Chevy. air. pwr. w/ 10 ft cabover camper. upholstered pass-through. jacks. chemical toilet. clean. \$2495. 482-1582.  
 71 Honda CB100 w/ lug rack and helmet. lw mi. superb cndn. \$315. 482-7643.  
 Yamaha Enduro 125. elec starter. fuel injected. dirt or street. helmet free. 54 mi. \$475. Joyce. 5581.  
 Boys' 20" Schwinn. \$15. 488-4005.  
 72 Mustang Mach I. auto. pwr. air. tilt str.

steel belted radials. xint cndn. days 681-9624. nights. 538-2009.  
 72 3.0 SC BMC. CB ndlights. cone shocks. radials. loaded xint cndn. 461-6763.  
 69 Plymouth Fury III. w/ pwr. air. 48,000 mi. dinged right fender and cracked w/s. \$550. x2626.  
 Woman's 26" bike. 2 boy's bikes. tricycle. usable to new. Conelius. x 5441 or 422-3394 (Baytown).  
 Honda CT70. 2 yrs old. xint cndn. nvr raced. \$200. cn be titled. 331-4259.  
 Camper. 8 1/2 ft w/ stove. sink. water tank. ice box. toilet. 5" foam mattress. closet etc. Cree. 4476 or 481-1158.  
 73 GMC Sierra 1/2 ton air. pb. ps. AM/FM radio. GEM top. dual exhaust. \$5200 list for \$2850. White. x 4006 or 488-2537.  
 69 Dodge Monaco. gd mechanical cndn and mi. radio. tape. pwr. one owner. Polly. 2021 or 488-0192.  
 69 Buick Skylark. 2-dr. auto. air. xint cndn. gd tires. ps. gd gas mi. Shock. 3254 or 479-3653 aft 5.  
 72 VW bus. fact air. fm radio. other xtras. lw mi. xint cndn. \$2,750. 534-3802.  
 72 Coleman Tent Camper model c681. xtras. nw cndn. \$900. 534-3802.

**PROPERTY AND RENTALS**

2 residential lots Southeast Houston. 50x135' each. all utilities. paved streets. x2986 or 488-3579.  
 Lake Livingston resort/retirement home 3-2-1. attractively furnished. Cape Royale area. weekly. monthly. yearly rates. 488-4487.  
 Beach house w/ gd view of Gulf of Mexico. spend your vacation time on Bolivar Peninsula away from crowd. reservations now being taken 554-6423.  
 Sagemont. lovely 3-2-2 home on corner lot w/ trees. near schools. churches and shopping. attractive interior. separate d.r.. detached garage. Park. 481-1255.

**PETS**

AKC reg cocker spaniel puppies. Buff. \$100. Champion Line. 534-2180.  
 AKC adult german shepherd watchdog. free to right home. 488-3188 evenings.

**WANTED**

Scuba diving equipment. Roby. 946-1869 aft 6.

Home in CLC. Oakbrook West at least 4 br. formal lr. dr. 2400ft or bigger. owners only. no agents. 488-3288.  
 Sm outboard fishing rig. 12-15 ft boat. 5-35 hp motor. 488-3288.  
 Camping trailer or small mobile home to sleep 4. less than \$1200. Cheatham. 334-3265

or x 6493.

Sm boat trailer suitable for Dolfin Sr.. 334-3265 or 6493.

Want to form carpool from SW Houston-Parkgate Apt./Memorial Drive area. Bldg 45. arrange hours. Ann. X5913.

Used Honda Mini-Trail 70 frame in gd cndn. 334-4360

**BOATS**

CAL-25 sailboat. Lapper. 150 1/2 Genoa. nw Spinnaker. knot meter. 4" Danforth. xint cndn. \$7200. Sutton. x5336. 488-5442.

16 dt new ranger bass boat. 85 hp Evinrude. drive on trailer. loaded w/ accessories. full warranty. 488-5328.

73 115 hp Johnson motor on 18 ft Sportcraft fiberglass boat. on Polco trailer w/ other accessories incl. \$2295. 481-1491 aft 5.

12' aluminum jon boat (Ouachita) w/ 4 hp Sears air cooled engine. \$125. Brzezinski. 944-3560.

**Attention Singles!**

Bay Area Singles Club party 8 p.m. Friday May 17 in Recreation Center of Queen's Court Townhouses in Nassau Bay. 150 at last party. For information. call Jerry X-3561.

## Young

(Continued From Page 1)

has been awarded two NASA Distinguished Service Medals, two NASA Exceptional Service Medals, the Navy Astronaut Wings, two Navy Distinguished Service Medals, three Navy Distinguished Flying Crosses and the 1972 Iven C. Kincheloe Award of the Society of Experimental Test Pilots.

## Helen Ragsdale Elected PBX Pres.

Helen Ragsdale, chief telephone operator for JSC, was elected president of the PBX Clubs of Texas during the organization's annual convention held recently in Dallas. Mrs. Ragsdale is the immediate past vice-president of the PBX Club.

Helen has been the chief operator for JSC since 1962 and has received numerous awards and commendations from JSC organizations as well as from the professional organizations to which she belongs.

She has served both the PBX Club of Houston and the Space City Chapter of the American Women's Association in numerous capacities and participates in several other civic and community affairs.

The PBX Clubs of Texas, consists of 17 local clubs throughout the state and is comprised of industry and government PBX telephone operators whose purpose is to promote goodwill among employees, employers, and customers and to raise the status of PBX operators. To this end, the local organizations provide educational opportunities for its members through training, speakers, and frequent

meetings. In addition, the organization is actively engaged in assisting children suffering from muscular dystrophy.



HELEN RAGSDALE

## Doyle Joins NASA

Stephen E. Doyle, 38, formerly Manager for International Organization Affairs, Office of Telecommunications Policy, Executive Office of the President, has been named NASA's Deputy Assistant Administrator for International Affairs.

As Deputy Assistant Administrator for International Affairs, Doyle shares responsibility for a wide variety of NASA international program.

## EAA Attractions . . .

**LAS VEGAS NIGHT**

Time is running out! JSC Las Vegas Night at the Gilruth Center is May 25. Purchase your ticket from Mary Yarbrough, Bldg. 2 Rm. 207 today!

**TABLE TENNIS**

The JSC Table Tennis Club and Table Tennis Unlimited will begin a group teaching class for beginner and intermediate players. Rates will be \$20 for six lessons (one lesson per week). Additional members of same family will pay half price. Classes will be limited to 12 persons and dates will be announced soon.

The Table Tennis Club also will hold its semi-annual Open Table Tennis Tournament June 8 at the Rec. Center. Entry fee for the Tournament will be \$1; entries will be limited to 32 players. Contact S. Jacobs for

Table Tennis Club information.

**BASKETBALL**

Monday League: Nords, 12-3; Brewers, 11-4; F-Troop, 9-6; So Pac, 9-6; Stilts & Shrimps, 4-11; Keg Tappers, 0-15.

Tuesday: Lockheed 13-2; Klute-Holt, 12-3; Drag-ons 11-4; Philco-6-9; Marvels, 6-9; Team 6, 4-11; P. O. Dads 4-11; Gents 3-12. Thursday: Salukes, 13-2; Exchange 13-2; Zingers 10-5; Wizzards, 5-10; Expendables, 3-12; TTA Oldtimers, 1-4.

**JIMMY WARREN BOWLING**

Standings as of 5/2/74  
 Chokers, won 75, lost 45; Spoilers 69 1/2-50 1/2; Associates 67 1/2-52 1/2; Pin Pounders, 64 1/2-55 1/2; Alley Oops, 64-56, Strikeouts, 60 1/2-59 1/2; Hexes, 61-59; Ascenders, 57-63; Ball Busters 57-63; Team X, 54-66; Hertz, 53 1/2-66 1/2; Mixers, 53-67; Jokers, 52-68; Clowns, 51 1/2-68 1/2.

**GILRUTH RECREATION CENTER SCHEDULE**

May 13-26  
 Softball League, Mon-Thur, 5:30-8:30.  
 Karate Club, Gym, Mon, 5:30-7:30; Thurs, 6-9  
 Judo Club, Rm 204, Mon and Wed, 5-6:30  
 Table Tennis Club, Rms 204, 206, Tues, 6:30-9:45  
 Volleyball Club Practice, Gym, Mon, 8-9:45  
 Amateur Radio Club, Rm 204, May 15, 7-9:45  
 Scuba Club, Rm 215, May 16, 6:30-9:45  
 Open Gym, Mon-Fri, 9 a. m. - 5 p. m.  
 Mon and Wedn, 5-8 p.m.; Tues

and Thurs 5-9:45 p.m.

Glass recycling, barrels in North parking lot of Rec. Facility.

**TICKET CORNER**

Building 11 Exchange Store  
 Sea-Arama, May-June-Adults \$3 (regular 3.75) Children \$2 (regular \$2.75).  
 Astros, All Season any game Coupons \$2.50 and \$3.50 (\$3.50 and \$4.50 seats).  
 Astroworld, All Season - Adults \$4.25 - Children \$3.25 (Gate Price \$6.25 for both).  
 Six Flags Over Texas - All Season - Adults \$5.60 (regular \$6.50) Children \$4.70 (regular \$5.50).  
 Seven Seas - Next to Six Flags All Season - Available May 15 Adults \$3.00 (regular \$3.75) Children \$2.20 (regular \$2.75)

**OTHER TICKETS AND DISCOUNTS**

Las Vegas Night - \$7.50 each from Mary Yarbrough Bldg. 2 Rm. 707 X2995  
 Disney Magic Kingdom Club - Free from Lil Smith, Bldg. 2 Rm. 721 X5321  
 Carriage Trade Dinner Club - Individual Forms through Distribution  
 Diners International - Individual Forms through Distribution  
 Alley Theatre - individual Forms through Distribution

## ATTENTION!

JSC talent volunteers are needed to participate in entertainment at the JSC Country Fair Picnic September 14. Talent is needed for stage events and roaming entertainment. Call Phoncille Devore, x5404 or 331-5826 after 5 p. m.

## Secretary Adds Personal Touch

Joan C. Sallis of the Crew Systems Division, was named "Outstanding Secretary" for April.

In addition to Joan's remarkable secretarial qualities, she possesses a "personal touch" which contributed significantly to the success of the joint U. S./USSR negotiations within Working Group 5.

Walter W. Guy, chief of the Systems Engineering Branch, says Joan became the "U. S. ambassador of goodwill" for Working Group 5 (Life Support Systems and Crew Transfer) during meetings at the Center.

Some of her "goodwill" gestures included preparing a reception for all members of the Working Group; securing refreshments and sometimes lunch during meetings; providing transportation to local shopping centers and assisting the Soviet group in selecting items to purchase; and similar action.

"The noteworthy aspect of these courtesies is that they were done, not out of duty, but out of friendship; and the Soviet scientists and engineers recognized and appreciated this greatly," Guy stated.

Joan's ability to use a steno-type machine also enhanced the efficiency of Working Group 5 negotiations. She recorded all sessions and each night trans-

scribed those segments which were needed for clarity by the U. S. delegation.

Joan also was able to type editorial changes to Soviet documents by "sight" typing on a Russian typewriter, which helped to prevent delays that might otherwise have occurred in the preparation of the documents.

"Because of her high personal and professional standards," Guy added, "Mrs. Sallis was able to provide superbly effective support and was an extremely valuable Working Group participant in the joint negotiations."



OUTSTANDING SECRETARY—Joan Sallis of the Crew Systems Division was selected Outstanding Secretary for April. Dr. Christopher C. Kraft, JSC Director presented her with a plaque and a check for \$100. Also pictured is J. V. Correale, Chief of the Crew Systems Division.



**MONITORING DEVICE**—New patient monitoring device developed in part from space technology permits monitoring of patient's ECG and respiration rates through existing nurse call systems in hospitals and nursing homes. The low cost device, called Vitasign Attendant Monitor, uses three electrodes placed on the patient. When a change in the patient's ECG or respiration occurs, an alarm is automatically sounded at the nurse call station.

## Medical Device Aids High Risk Patients

Remote medical monitoring techniques developed primarily for manned space flight and the technical know-how of a NASA Biomedical Applications Team led to the development of a new, portable device able to monitor continuously the vital signs of high-risk patients in small hospitals, nursing homes or rehabilitation centers.

Now available commercially, the 1.8-kilogram (four-pound) device, call Vitasign Attendant Monitor, is designed to operate from existing patient call systems and conventional electrical outlets.

The device makes available at moderate cost the continuous patient monitoring techniques previously found only in the intensive care limits of large hospitals.

To operate the device, three electrodes are placed on the patient's chest. These electrodes monitor his ECG (electrocardiogram) and respiration rate. A loss or sudden change in the

ECG signal or changes in the normal respiratory cycle automatically switches on an alarm light on the unit and activates a signal at the central call station to alert medical attendants.

Initial development work on the monitor was carried out by the NASA Biomedical Application Team at the Southwest Research Institute, San Antonio, Texas. A prototype was built and successfully tested at the Caruth Memorial Rehabilitation Center in Dallas.

Drawing on this technology, and working closely with the Southwest Research Institute, a medical instrumentation firm named Modern Medical Methods, Inc., designed and built a commercial version of the device.

The Vitasign Attendant Monitor is expected to be particularly useful in monitoring patients with cardiac diseases, muscular dystrophy, cerebral palsy, tuberculosis, emphysema and cystic fibrosis.

## US/USSR Editorial Board Holds Final Meeting

The joint U. S. / USSR Editorial Board for the Preparation and Publication of a Review of Space Biology and Medicine recently held their seventh and final meeting. The five day session was held in Moscow. Following, in part, is the statement released by NASA and USSR Academy of Sciences:

"... The Joint review of research in space biology and medicine is being carried forward under an October 8, 1965 memorandum of understanding between NASA and the USSR Academy of Sciences. The agreement pro-

vides for a joint editorial board and for full cooperation by both sides in the preparation of material available in the two countries, selection of authors and publications of their work.

"The joint editorial board during this meeting reviewed the final manuscripts and preparations for printing that are needed to bring this publication to the reader in the near future. As a result of this review, the joint editorial board is pleased to recommend these volumes as an excellent summary of the first 15 years of space flight for the

scientist, the student and those who are only generally interested in spaceflight.

"Presiding at the meeting were co-chairman of the editorial board, Professor Oleg G. Gazenko, Director, Institute of Biomedical Problems, Soviet Ministry of Health, on behalf of the USSR and Professor Melvin Calvin, University of California, on behalf of the United States. The final recommendation of the joint editorial board will be forwarded to the heads of the Soviet Academy of Sciences and NASA for approval."

## Skylab Space Station Remains In Stabilized Orbit

NASA's Skylab space laboratory remains stable in orbit with its center line aligned with a line through the Earth's center. Shortly after the Skylab 4 crew left the orbiting space laboratory, February 8, it was positioned in this manner, with its Multiple Docking Adapter (MDA) pointing away from Earth.

Report of the stable orbit was

received at NASA's Marshall Space Flight Center, Huntsville, Ala., after a recent check by the U. S. Air Force North American Defense Command (NORAD).

The cluster was put into its "gravity gradient" attitude in an effort to keep from tumbling. Astronauts on some future space flight may wish to rendezvous and dock with the cluster to ex-

amine its interior and retrieve a "time capsule" of several items left in the MDA.

In a gravity gradient, attitude the vehicle is aligned in such a manner that an imaginary line from the center of the Earth to the spacecraft would run through the center of Skylab, following its lengthwise axis. This would make it vertical with respect to the Earth's surface.

Tests have indicated that this is the most stable attitude into which Skylab could be put, leaving it exposed to the least drag forces that could cause it to tumble.

## Stamp Club Holds Ceremonies

First Day Issuance Ceremonies for the Skylab commemorative stamp will be held at the Rice Hotel on May 14 at 12:30 p. m. The JSC Club and the Houston Philatelic society will co-host the event.

The Skylab stamps will be sold following the ceremony and cancellation service will be provided.

First day of issue cancels also will be available at the main Post Office in Houston and at the Albert Thomas P. O. Branch.

Those desiring covers but will be unable to attend the First Day Ceremony may obtain them for 50 cents each from the JSC Stamp Club, P. O. Box 58328, Houston, 77058.

Tracking chart covers, and cacheted covers commemorating Skylab launch and the three manned missions also are available.

## Yardly

(Continued From Page 1)

cury and Gemini Spacecraft from 1960 to 1964, and then served as Gemini Technical Director from 1964 to 1967. He was also Vice President and Corporate-wide General Manager for the Skylab project before being named Vice President and Deputy General Manager, Eastern Division Astronautics in 1968.

## Dr. Winter

(Continued From Page 1)

graduate of Washington University Medical School, St. Louis, Missouri.

Dr. Winter has assumed his new responsibilities but will remain at Ames until he moves to the Washington area this summer.

**Take  
stock  
in America.**

## Kimzey Presents Paper— (Continued From Page 1)

A number of papers were presented to highlight Skylab material processing experiments and future space processing concepts.

During Kimzey's presentation, he stated that the objective of Experiment M-479 — conducted during the final Skylab mission — was to increase knowledge of ignition, propagation, and extinguishment in zero gravity.

Criteria for selecting material for the experiment, Kimzey said, included safety to the crew, applicability to future spacecraft designs, stability over long periods in an oxygen-rich atmosphere, and low toxicity of combustion products as well as materials which cover a wide spectrum of flammability from both ignition and burning rates.

Materials selected included aluminized mylar, nylon sheet, neoprene coated nylon fabric, polyurethane foam, bleached cellulose paper, teflon fabric, two pieces of paper mounted face to face in a parallel position.

The flammability tests were performed inside a spherical chamber having a volume of approximately 1.45 cubic feet. A

total of 37 tests were completed over a period of two days. Some of the results follow:

—Ignition was not quantitatively evaluated in zero gravity but appears to be identical in heat and time as in one g.

—Burning rates, in general, are much slower in zero gravity than they are, for the same material and atmosphere, in one-g.

—Extinguishment by vacuum is effective in that the fire will go out as the available oxygen decreases. A significant side effect is the intensification that develops during the initial phase: The flame can be extremely soft and small with a nearly negligible burning rate and, as the air flow produces a forced convection, it will greatly intensify. If such a procedure were used in a large volume and the time to reach a cutoff pressure was significantly long, the fire could do considerable damage before going out.

—Self-extinguishment of an undisturbed fire was not noted. Although self-extinguishment is possible, all criteria are undefined.

—Extinguishment by water is possible provided the application is controlled and adequate.

## JSC Radio Station Gets Call Letters

The station operated by the JSC Amateur Radio Club has been assigned the call letters W5RR by the Federal Communications Commission.

The Club requested these call letters in memory of the late H. "Red" Brendle, one of the charter members of the JSC Amateur Radio Club. W5RR were the call letters of Brendle's ham station at his home in Clear Lake City.

Kent Castle, President of the Amateur Radio Club, said the station will be known as the "Red Brendle Memorial Station."

Formerly located near Building 338, the station has been moved to facilities near the Recreation Center, and will be operational in about a month.

**Take stock in America.  
Buy U.S. Savings Bonds.**